Matrix Switchers

Epica DGX 32

Pre-Engineered Matrix Switchers Digital Video with DVI

The Epica DGX 32 DVI Matrix Switchers are designed to route and distribute high-resolution computer DVI signals to multiple displays while maintaining a true digital signal. The Epica DGX 32 includes several new key features that simplify the complexity of DVI integration, such as cable equalization, signal re-clocking and easy to use EDID (Extended Display Identification Data) Programmer that is pre-loaded with the most common EDID settings and allows custom EDID settings to be loaded on each input. Supporting 4.95 Gbps, the DGX ensures perfect pixel for pixel reproduction for all video resolutions up to 1920x1200. Designed with flexibility, the compact 6RU enclosure is expandable from 16x16 to 32x32 by increments of 4. It features several integrator friendly tools designed to simplify setup and reduce installation issues including hot-swappable I/O boards, real-time system monitoring, and fully redundant, hot-swappable power supplies with redundant power feeds.

COMMON APPLICATIONS

The Epica DGX 32 DVI Matrix Switchers are ideal for any installation that requires high-resolution digital computer video be displayed on multiple screens such as auditoriums, command and control centers, digital signage applications and more.

FEATURES

- True uncompressed DVI digital matrix switching ensures the purity of the digital image is never compromised
- Supports DVI resolutions up to 1920 x 1200 @ 60Hz
- Provides additional power on every DVI output commonly used to power external DVI extenders
- Pre-loaded with the most common EDID settings on each of the matrix switcher's input connectors to emulate the display's response when queried, which ensures transmission of the video from the source device
- Custom EDID settings can be loaded on each input with the use of the included EDID Programmer
- Standard RS-232 control port

MORE FEATURES

- Standard USB (mini-B) port can be used as a virtual Com port for serial communication with a PC
- Supports AutoPatch's simple BCS serial control protocol
- Standard Integrated TCP/IP APWeb control
- Includes intuitive front mounted control panel featuring LED backlit LCD and blue light buttons, allowing quick and easy access to execute many commands including status, change, disconnect, local presets, global presets, front panel lock and unlock, and more
- Ships with free AutoPatch matrix switcher configuration software
- Ships with free APControl to provide easy single-user PC control of the matrix switcher
- Supports Native NetLinx over the TCP/IP port
- Rack mounting ears included
- Free upgrade to a lifetime warranty available
- Fully redundant power supplies with independent power paths for maximum reliability
- Local presets allow quick recall of a pre-programmed set of switches with a single command; multiple presets can exist within a system at the same time
- Global presets allow quick recall of a comprehensive snapshot of all switches

KEY DEALER BENEFITS

- **Cost Effective Mid-Size DVI Switching Solution** – The Epica DGX 32 DVI Matrix Switcher enables dealers to offer the game-changing capabilities of the DGX Family in a smaller enclosure at an aggressive price point
- **Simplified DVI Integration** – The Epica DGX 32 DVI Matrix Switcher offers several key features that enhance integration convenience and ease of set-up including cable equalization, signal re-clocking, and EDID Programmer
- **Field Serviceable and Upgradable** – Easily add or replace I/O boards at any time after deployment - the system automatically recognizes the new configuration and activates the boards

AVAILABLE MODELS

AVS-EPDGX32-1616-DD0	16x16, DVI Digital Video	(FGP56-1616-DD0)
AVS-EPDGX32-1624-DD0	16x24, DVI Digital Video	(FGP56-1624-DD0)
AVS-EPDGX32-1632-DD0	16x32, DVI Digital Video	(FGP56-1632-DD0)
AVS-EPDGX32-2416-DD0	24x16, DVI Digital Video	(FGP56-2416-DD0)
AVS-EPDGX32-2424-DD0	24x24, DVI Digital Video	(FGP56-2424-DD0)
AVS-EPDGX32-2432-DD0	24x32, DVI Digital Video	(FGP56-2432-DD0)
AVS-EPDGX32-3216-DD0	32x16, DVI Digital Video	(FGP56-3216-DD0)
AVS-EPDGX32-3224-DD0	32x24, DVI Digital Video	(FGP56-3224-DD0)
AVS-EPDGX32-3232-DD0	32x32, DVI Digital Video	(FGP56-3232-DD0)

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SPECIFICATIONS

I/O RANGE
16x16, 16x24, 16x32, 24x16, 24x24, 24x32, 32x16, 32x24, 32x32

GENERAL
- AC Power: 100-240 VAC single phase, 50-60 Hz
- Power Consumption (Max): 785 Watts
- Power Consumption (Typ): 445 Watts, fully loaded enclosure
- BTU/HR (Max): 2679
- BTU/HR (Typ): 1518, fully loaded enclosure
- Operational Temperature: 32° to 113° F (0° to 45° C)
- Storage Temperature: -22° to 158° F (-40° to 70° C)
- Humidity: 0 to 90% non-condensing
- MTBF: 102,000 hours

DIMENSIONS (HWD)
- 10 7/16" x 19" x 20 1/16" (26.5 cm x 48.3 cm x 51 cm)
- RU: 6

DIMENSIONS (HWD) WITH EXTRACTORS
- 10 7/16" x 19" x 21 1/16" (26.5 cm x 48.3 cm x 53.5 cm)
- RU: 6

WEIGHT
- Appx. 60 lbs (27.2 kg) per loaded enclosure
- Shipping Weight: Appx. 70 lbs (31.8 kg) per loaded enclosure

DVI
- Signal Type: DVI-D (Single Link)
- Resolution Support: 640x480 @ 60Hz up to 1920x1200 @ 60Hz
- Interlaced Resolution Support
  - 1080i 60, 59.94, 50 (fields per second)
  - 576i 100, 50 (fields per second)
  - 480i 60 (fields per second)
- Data Rate (Max): 4.95 Gbps
- Pixel Clock (Max): 165 MHz
- DDC/EDID Support
  - EDID provided by Epica DGX 32
  - EDID is user re-programmable
- HDCP Support: No
- Input Voltage (Nominal): 1.0 Vpp Differential
- Input Cable Equalization: Up to 50 ft
- Output Nominal Voltage: 1.0 Vpp Differential
- Output Reclocking: Yes
- Output +5V DDC Pin: 250 mA
- Output Rise Time / Fall Time:
  - 80 ps min - 200 ps max (20% - 80%)
  - 0.13 UI min - 0.33 UI max (@ 1.65 Gbps, 20% - 80%)
- DVI Input Board Propagation Delay: 1 us
- DVI Output Board Propagation Delay: 2 us
- Connector: DVI-I (DVI-D Single Link is the supported signal type)

EDID
- Standard Timing Identification:
  - ID 1: 1920 x 1200 @ 60 Hz*
  - ID 2: 1920 x 1080 @ 60 Hz
  - ID 3: 1680 x 1050 @ 60 Hz
  - ID 4: 1600 x 1200 @ 60 Hz
  - ID 5: 1280 x 800 @ 60 Hz
  - ID 6: 1280 x 720 @ 60 Hz
  - ID 7: 1280 x 1024 @ 60 Hz
  - ID 8: 640 x 480 @ 120 Hz

* This is the preferred timing identified in the EDID.

CERTIFICATIONS
CE, FCC Class A, UL, cUL, RoHS

- Established Timing:
  - 640 x 480 @ 60 Hz, 72 Hz, 75 Hz
  - 800 x 600 @ 56 Hz, 60 Hz, 72 Hz, 75 Hz
  - 1024 x 768 @ 60 Hz, 70 Hz, 75 Hz, 87 Hz
  - 1280 x 1024 @ 75 Hz

RECOMMENDED ACCESSORIES
- DGX-DVI-Fiber TX, DGX DVI Fiber Transmitters (FG1010-210-01)
- DGX-DVI-Fiber RX, DGX DVI Fiber Receiver (FG1010-410-01)
- CBL-FIBER-MM-SC-SC, SC-SC Single Strand Multimode Fiber Cable (25-1000 ft.) (CBL-FIBER-MM-SC-SC)

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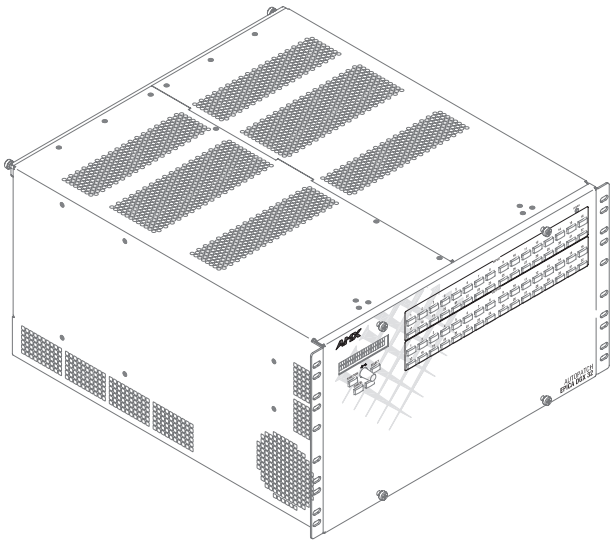
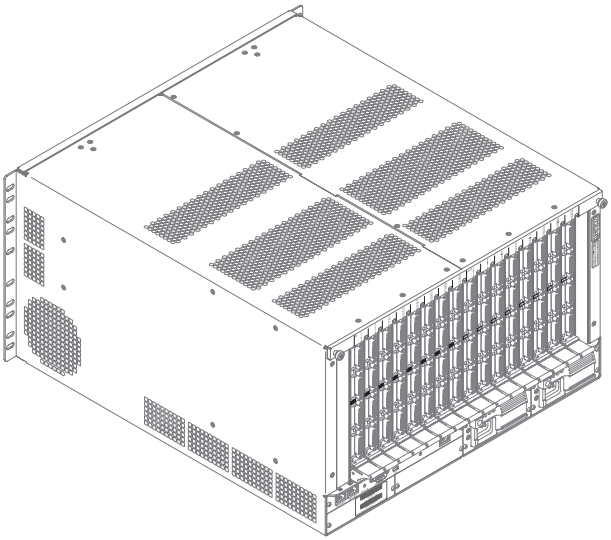
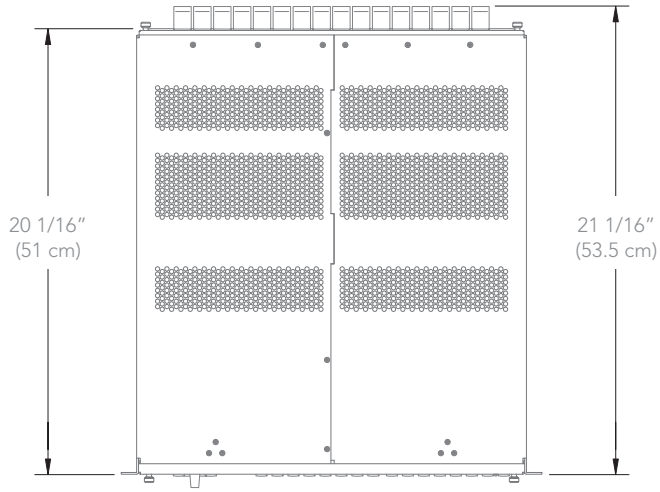
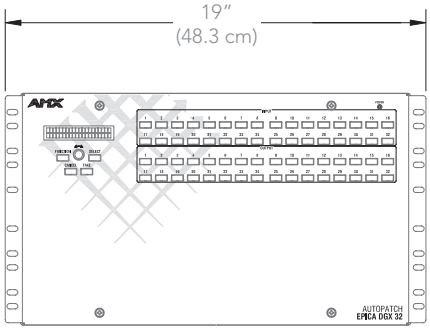




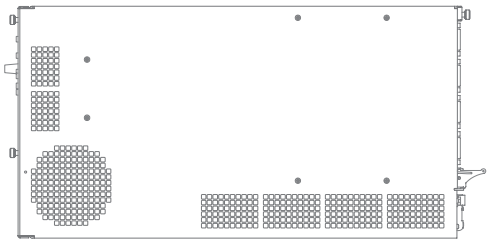
Epica DGX 32
(Isometric Views)



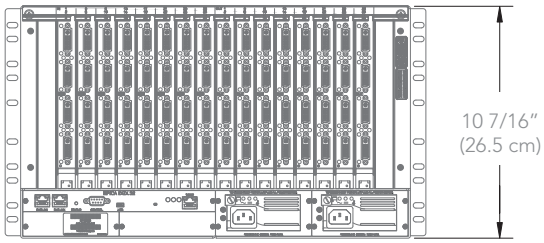
Epica DGX 32
(Top View)



Epica DGX 32
(Front View)



Epica DGX 32
(Right View)



Epica DGX 32
(Back View)

IT'S YOUR WORLD. TAKE CONTROL.

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